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5775 MOREHOUSE DR. SAN DIEGO, CA 92121			TRAORE, FATOUMATA	
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			2136	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/807,990	MAGGENTI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fatoumata Traore	2136				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 J	uly 2007.					
2a)⊠ This action is FINAL . 2b)☐ This						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4) ☑ Claim(s) 1-28 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-28 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 23 March 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	a)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal f 6) Other:	ate				

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DETAILED ACTION

1. This action is responsive to amendment filed July 11. 2007, where applicant cancelled claims 29-32. Claims 1-28 are pending examination.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Applicant's request for reconsideration of the 101 rejection of the last Office action is persuasive and, therefore the rejection is withdrawn.

Response to Arguments

4. Applicant's arguments filed 07/11/2007 have been fully considered but they are not persuasive.

Applicant argues that <u>Klutt et al</u> does not discloses that "different keys are used for different partitions of the document without any part of any of the keys being used in combination with each other. That is, "wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code" is simply not disclosed.

In *reply*, <u>Klutt et al</u> discloses a system, method and computer program for multiple level encryption which encrypt a document by dividing the document into at

least a first portion having a first security level and a second portion having a second security level. The document is then encrypted utilizing at least two encryption keys so as to encrypt the first portion of the document with a first of the at least two encryption keys and so as to encrypt the second portion of the document with a second of the at least two encryption keys. Preferably, the document is sequentially encrypted utilizing at least two encryption keys so as to encrypt the first portion of the document with a first of the at least two encryption keys and so as to encrypt the first and the second portion of the document with a second of the at least two encryption keys (abstract, column 2, lines 9-20, column 3, lines 4-16). Klutt et al further discloses each portion of the document 100 is sequentially encrypted with all lower levels of security keys. Thus, for example, the top-secret portion 116 of the document 100 would be encrypted with the top-secret key 104. The encrypted top-secret portion and the unencrypted secret portion of the document 100 are then encrypted with the secret key 106. The encrypted topsecret portion, the encrypted secret portion, and the unencrypted confidential portion 112 are then encrypted with the confidential key 108. Thus, the top-secret portion 116 may be sequentially encrypted with the top-secret key 104, the secret key 106, and the confidential key 108. While the different portions of the document 100 illustrated in FIG. 3 are illustrated as contiguous, each portion may be non-contiguous so that different portions with different levels may be interleaved within the document 100. Furthermore, there may also be multiple security classes associated with a particular level of security, with each security class associated with a different encryption key. The portions of the document at a particular security level may, therefore, be partitioned among the various

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security classes at that level, and each of these partitions may be separately encrypted using the encryption key corresponding to the associated security class. *Therefore, multiple keys may be associated with a particular level of security as well as differing levels of security* (column 6, lines 3-27 and column 7, lines 7-18).

Applicant also argues that "In addition, it could reasonably be argued that Kluttz also does not disclose that the encapsulating said first encrypted data frame in a first transport frame, said first transport frame comprising a first portion and a second portion of said first sequential code is not disclosed. Nowhere in Kluttz does it discuss the encapsulation of the portions of sequential code with the encrypted data frames.

Therefore Kluttz does not disclose these particular elements of the independent claims."

In reply, Alden et al discloses a new pseudo network adapter is disclosed providing an interface for capturing packets from a local communications protocol stack for transmission on the virtual private network. The new pseudo network adapter includes a transmit path for processing data packets from the local communications protocol stack for transmission through the pseudo network adapter. The transmit path includes an encryption engine for encrypting the data packets and an encapsulation engine for encapsulating the encrypted data packets into tunnel data frames (abstract, column 3, lines 10-25, column 5, lines 15-27, FIG. 1, FIG.9, FIG. 15, FIG. 16, and FIG. 17).

5. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention

where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1, 4, 7, 13-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alden et al (US 6101543) in view of Kluttz et al (US 6598161).
 - Claims 1, 4, and 7: <u>Alden et al</u> discloses a method, a computer readable medium, and an apparatus for transmitting packet from a local communications protocol stack to a virtual private network comprising:
 - i. Encrypting a first data frame based on a first unique code in a first communication device, said first unique code being derived from a first sequential code (the transmit path includes an encryption engine for encrypting the data packet) (column 3, lines 18-19), but does explicitly disclose that a sequential encryption is used.
 - ii. Encapsulating said first encrypted data frame in a first transport frame, said first transport frame comprising a first portion and a second

portion of said first sequential code (and encapsulation engine for encapsulating the encrypted data packets into tunnel data frames) (column 3, lines 19-21);

- iii. Encrypting a second data frame based on a second unique code in the first communication device, said second unique code being derived from a second sequential code the transmit path includes an encryption engine for encrypting the data packet) (column 3, lines 18-19), but does explicitly disclose that a sequential encryption is used.
- iv. Encapsulating said second encrypted data frame in a second transport frame, said second transport frame comprising a first portion and a second portion of said second sequential code (and encapsulation engine for encapsulating the encrypted data packets into tunnel data frames) (column 3, lines 19-21);
- v. And transmitting said first transport frame and said second transport frame to a second communication device, wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code (the new pseudo network adapter includes a transmit path for processing data packets from the local

communications protocol stack for transmission through the pseudo network adapter) (column 3, lines 15-19).

Alden et al does not disclose that the encryption is based on sequential code encryption. However Kluttz et al discloses a secure encryption system, which used a sequential encryption (the document is then encrypted utilizing at least two encryption keys so as to encrypt the first portion of a document with a first of the at least two encryptions keys and so to encrypt the second portion of the document with a second of the at least two encryption keys) (column 2, lines 9-15). Therefore, it would have been obvious for one having ordinary skills in the art at the time the invention was made for Alden et al to use an encryption based on sequential keys. One would have been motivate to do so in order to increase data integrity.

Claims 13, 17, 21: <u>Alden et al</u> discloses a method, a computer readable medium, and an apparatus for transmitting packet from a local communications protocol stack to a virtual private network comprising:

i. Receiving a first transport frame, said first transport frame comprising a first encrypted data payload, a first portion of a first sequential code, and a second portion of said first sequential code (the new network adapter further include an interface into a transport layer of the local communication protocol stack for capturing received data

packets from the remote server node and a receive path for processing received data packet) (column 3, lines 40-45);

- ii. Receiving a second transport frame, said second transport frame comprising a second encrypted data payload, a first portion of a second sequential code, and a second portion of said second sequential code (the new network adapter further include an interface into a transport layer of the local communication protocol stack for capturing received data packets from the remote server node and a receive path for processing received data packet) (column 3, lines 40-45);
- iii. And determining said second sequential code using said first portion of said second sequential code, said second portion of said second sequential code, and said second portion of said first sequential code, wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code (the new pseudo network adapter includes a transmit path for processing data packets from the local communications protocol stack for transmission through the pseudo network adapter) (column 3, lines 15-19).

Alden et al does not disclose that the encryption is based on sequential code encryption. However Kluttz et al discloses a secure encryption system, which

used a sequential encryption (the document is then encrypted utilizing at least two encryption keys so as to encrypt the first portion of a document with a first of the at least two encryptions keys and so to encrypt the second portion of the document with a second of the at least two encryption keys) (column 2, lines 9-15). Therefore, it would have been obvious for one having ordinary skills in the art at the time the invention was made for <u>Alden et al</u> to use an encryption based on sequential keys. One would have been motivate to do so in order to increase data integrity.

Claims 14, 18, 22: Alden et al and Kluttz et al disclose a method, system and apparatus for transmitting packet from a local communications protocol stack to a virtual private network as in claims 13, 17, and 21 above, and Kluttz et al further discloses that decrypting of said second encrypted data payload using said second sequential code (the second portion of the document is decrypted utilizing the second encryption key) (column 2, lines 51-52). Therefore, it would have been obvious for one having ordinary skills in the art at the time the invention was made for Alden et al to use a decryption based on sequential keys. One would have been motivate to do so in order to increase data integrity.

Claims 15, 19, 23: <u>Alden et al</u> and <u>Kluttz et al</u> disclose a method, a computer readable medium, and an apparatus for transmitting packet from a local communications protocol stack to a virtual private network as in claims 13, 17,

and 21 above, and Kluttz et al further discloses that determining said first sequential code using said first portion of said first sequential code, said second portion of said first sequential code, and said second portion of said second sequential code (the object of the present invention is provided by methods, systems, and computer programs products which encrypt a document by dividing the document into at least a first portion having a first security and a second portion having a second security level. The document is then encrypted using at least two encryption keys) (column 2, lines 5-11). Therefore, it would have been obvious for one having ordinary skills in the art at the time the invention was made for Alden et al to distinguish between different portions of the encryption code. One would have been motivate to do so in order to increase data integrity.

Claims 16, 20, 24: Alden et al and Kluttz et al disclose a method, a computer readable medium, and an apparatus for transmitting packet from a local communications protocol stack to a virtual private network as in claims 15, 19, and 23 above, and Kluttz et al further discloses that decrypting of said first encrypted data payload using said first sequential code (the first portion of the document is decrypted utilizing the first encryption key) (column 2, lines 50-52). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teaching of Alden et al such as to use a decryption based on sequential keys. One would have been motivate to do so in order to increase data integrity.

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8. Claims 2, 5, 8, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Alden et al</u> (US 6101543) in view of <u>Kluttz et al</u> (US 6598161) in further view of <u>Perlman</u> (US 6363480).

Claims 2, 5, 8, 11: Alden et al and Kluttz et al disclose a method, an apparatus, and a computer readable medium for transmitting packet from a local communications protocol stack to a virtual private network as in claims 1, 4, 7, and 10 above, but do not explicitly disclose that said first portion of said first sequential code and said first portion of said second sequential code each represent a short-term component of said first and second sequential codes. However, Perlman discloses a system and method for a user to encrypt data in a way that ensures data cannot be decrypted after a finite period, which further short-term component of said first and second sequential codes (provide one or more ephemeral encryption keys to party wishing to encrypt a message to be passed to a destination party (column 2, lines 45-53). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined method, apparatus, and computer readable medium of Alden et al and Kluttz et al such as to use ephemeral keys in the encryption process. The motivation for doing so would have been to protect against attempts to retrieve critical information.

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9. Claims 3, 6, 9, 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Alden et al</u> (US 6101543) in view of <u>Kluttz et al</u> (US 6598161) in further view of <u>Semper</u> (US 6657984).

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Claims 3, 6, 9, 12: Alden et al and Kluttz et al disclose a method, an apparatus, and a computer readable medium for transmitting packet from a local communications protocol stack to a virtual private network as in claims 1, 4, 7, and 10 above, but do not explicitly disclose the transport frame comprises a radio link protocol (RLP) frame. However, Semper discloses a system, method, and apparatus for providing backward compatibility of radio link protocols in a wireless network, which further discloses a transport frame, comprises a radio link protocol (the system comprises a radio link protocol) (column 2, lines 10-15 Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined method, computer readable medium, and apparatus of Alden et al and Kluttz et al such as to use a radio link protocol. One would have been motivate to do so in order to reduce packets loss rate during transmission.

10. Claims 10, 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marino et al (US 6026165) in view of Alden et al (US 6101543) and Kluttz et al (US 6598161).

Claim 10: <u>Marino et al</u> disclose a secure communication comprising:

A receiver (the wireless communication system comprise a receiver)(column 3, lines 26-27);

A transmitter (a plurality of transmitting device) (column 3, lines 27-28);

And a processor communicatively coupled to the receiver and the transmitter, the processor being capable of implementing a method for synchronizing encryption and decryption of a data frame in a communication network (transmission of encrypted data in a secure system wherein the receiver stores locally an encryption utilized by the transmitting device to encrypt the data message and the receiver uses encryption keys to decrypt an encrypted data message and wherein a sequence number generator is used to synchronously track the message sequence at both the transmitter and the receiver) (abstract), but does not explicitly discloses that the method further comprising:

Encrypting a first data frame based on a first unique code in a first communication device, said first unique code being derived from a first sequential code; Encapsulating said first encrypted data frame in a first transport frame, said first transport frame comprising a first portion and a second portion of said first sequential code; Encrypting a second data frame based on a second unique code in the first communication device, said second unique code being derived from a second sequential code the transmit path includes an encryption engine for encrypting the data packet); Encapsulating said second encrypted data frame in a second transport frame, said second transport frame comprising a first portion and a second portion of said second sequential code; And

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transmitting said first transport frame and said second transport frame to a second communication device, wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code. However, Alden et al discloses a method, system, and apparatus for transmitting packet from a local communications protocol stack to a virtual private network comprising:

- 1. Encrypting a first data frame based on a first unique code in a first communication device, said first unique code being derived from a first sequential code (the transmit path includes an encryption engine for encrypting the data packet) (column 3, lines 18-19), but does explicitly disclose that a sequential encryption is used.
- 2. Encapsulating said first encrypted data frame in a first transport frame, said first transport frame comprising a first portion and a second portion of said first sequential code (and encapsulation engine for encapsulating the encrypted data packets into tunnel data frames) (column 3, lines 19-21);
- 3. Encrypting a second data frame based on a second unique code in the first communication device, said second unique code being derived from a second sequential code the transmit path includes an encryption

engine for encrypting the data packet) (column 3, lines 18-19), but does explicitly disclose that a sequential encryption is used.

- 4. Encapsulating said second encrypted data frame in a second transport frame, said second transport frame comprising a first portion and a second portion of said second sequential code (and encapsulation engine for encapsulating the encrypted data packets into tunnel data frames) (column 3, lines 19-21);
- 5. And transmitting said first transport frame and said second transport frame to a second communication device, wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code (the new pseudo network adapter includes a transmit path for processing data packets from the local communications protocol stack for transmission through the pseudo network adapter) (column 3, lines 15-19).

Alden et al does not disclose that the encryption is based on sequential code encryption. However Kluttz et al discloses a secure encryption system, which used a sequential encryption (the document is then encrypted utilizing at least two encryption keys so as to encrypt the first portion of a document with a first of the at least two encryptions keys and so to encrypt the second portion of the

document with a second of the at least two encryption keys) (column 2, lines 9-15). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined apparatus of <u>Alden et al</u> and <u>Kluttz et al</u> such as to have a processor coupled to the receiver and the transmitter and to use an encryption based on sequential keys. One would have been motivate to do so in order to increase system efficiency and data integrity.

Claim 25: Marino et al disclose a secure communication comprising:

A receiver (the wireless communication system comprise a receiver)(column 3, lines 26-27);

A transmitter (a plurality of transmitting device) (colunm3, lines 27-28);

And a processor communicatively coupled to the receiver and the transmitter, the processor being capable of implementing a method for synchronizing encryption and decryption of a data frame in a communication network (transmission of encrypted data in a secure system wherein the receiver stores locally an encryption utilized by the transmitting device to encrypt the data message and the receiver uses encryption keys to decrypt an encrypted data message and wherein a sequence number generator is used to synchronously track the message sequence at both the transmitter and the receiver) (abstract), but does not explicitly discloses that the method further comprising: receiving a first transport frame, said first transport frame comprising a first encrypted data payload, a first portion of a first sequential code, and a second portion of said first

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sequential code; receiving a second transport frame, said second transport frame comprising a second encrypted data payload, a first portion of a second sequential code, and a second portion of said second sequential code; and determining said second sequential code using said first portion of said second sequential code, said second portion of said second sequential code, and said

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sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second

second portion of said first sequential code, wherein said first portion of said first

portion of said second sequential code represents a successive relative portion

with respect to said second portion of said first sequential code. Alden et al

discloses an apparatus for transmitting packet from a local communications

protocol stack to a virtual private network comprising:

- iv. Receiving a first transport frame, said first transport frame comprising a first encrypted data payload, a first portion of a first sequential code, and a second portion of said first sequential code (the new network adapter further include an interface into a transport layer of the local communication protocol stack for capturing received data packets from the remote server node and a receive path for processing received data packet) (column 3, lines 40-45);
- v. Receiving a second transport frame, said second transport frame comprising a second encrypted data payload, a first portion of a second sequential code, and a second portion of said second sequential code (the

new network adapter further include an interface into a transport layer of the local communication protocol stack for capturing received data packets from the remote server node and a receive path for processing received data packet) (column 3, lines 40-45);

vi. And determining said second sequential code using said first portion of said second sequential code, said second portion of said second sequential code, and said second portion of said first sequential code, wherein said first portion of said first sequential code and said first portion of said second sequential code identify the same relative portions of said first and second sequential codes, and said second portion of said second sequential code represents a successive relative portion with respect to said second portion of said first sequential code (the new pseudo network adapter includes a transmit path for processing data packets from the local communications protocol stack for transmission through the pseudo network adapter) (column 3, lines 15-19).

Alden et al does not disclose that the encryption is based on sequential code encryption. However Kluttz et al discloses a secure encryption apparatus, which used a sequential encryption (the document is then encrypted utilizing at least two encryption keys so as to encrypt the first portion of a document with a first of the at least two encryptions keys and so to encrypt the second portion of the document with a second of the at least two encryption keys) (column 2, lines 9-15). Therefore, it would have been obvious to one of ordinary skill in the art at

al and Marino et al such as to have a processor coupled to the receiver and the transmitter and to use an encryption based on sequential keys. One would have been motivate to do so in order to increase system efficiency and data integrity.

Claim 26: Marino et al, Alden et al and Kluttz et al disclose a method, system and apparatus for transmitting packet from a local communications protocol stack to a virtual private network as in claim 25 above, and Kluttz et al further discloses that decrypting of said second encrypted data payload using said second sequential code (the second portion of the document is decrypted utilizing the second encryption key) (column 2, lines 51-52). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined apparatus of Marino et al and Alden et al such as to use a decryption based on sequential keys. One would have been motivate to do so in order to increase data integrity.

Claim 27: Marino et al, Alden et al and Kluttz et al disclose an apparatus for transmitting packet from a local communications protocol stack to a virtual private network as in claim 25 above, and Kluttz et al further discloses that determining said first sequential code using said first portion of said first sequential code, said second portion of said first sequential code, and said second portion of said second sequential code (the object of the present invention is provided by

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methods, systems, and computer programs products which encrypt a document by dividing the document into at least a first portion having a first security and a second portion having a second security level. The document is then encrypted using at least two encryption keys) (column 2, lines 5-11). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined apparatus of **Marino et al** and **Alden et al** such as to distinguish between different portions of the encryption code. One would have

been motivate to do so in order to increase data integrity.

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Claim 28: Marino et al, Alden et al and Kluttz et al disclose an for transmitting packet from a local communications protocol stack to a virtual private network as in claim 27 above, and Kluttz et al further discloses that decrypting of said first encrypted data payload using said first sequential code (the first portion of the document is decrypted utilizing the first encryption key) (column 2, lines 50-52). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined apparatus of Marino et al and Alden et al such as to use a decryption based on sequential keys. One would have been motivate to do so in order to increase data integrity.

11. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Marino</u> et al (US 6026165) in view of <u>Alden et al</u> (US 6101543) and <u>Kluttz et al</u> (US 6598161) and in further view of <u>Perlman</u> (US 6363480).

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Claim 11: Marino et al, Alden et al and Kluttz et al disclose an apparatus for transmitting packet from a local communications protocol stack to a virtual private network as in claim 10 above, but do not explicitly disclose that said first portion of said first sequential code and said first portion of said second sequential code each represent a short-term component of said first and second sequential codes. However, Perlman discloses a system and method for a user to encrypt data in a way that ensures data cannot be decrypted after a finite period, which further short-term component of said first and second sequential codes (provide one or more ephemeral encryption keys to party wishing to encrypt a message to be passed to a destination party (column 2, lines 45-53). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined apparatus of Marino et al, Alden et al and Kluttz et al such as to use ephemeral keys in the encryption process. One would have

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12. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Marino</u> et al (US 6026165) in view of <u>Alden et al</u> (US 6101543) and <u>Kluttz et al</u> (US 6598161) and in further in view of **Semper** (US 6657984).

been motivate to do so in order to assure the integrity of the keys.

Claim 12: Marino et al, Alden et al and Kluttz et al disclose an apparatus for transmitting packet from a local communications protocol stack to a virtual private network as in claim 10 above, but do not explicitly disclose the transport frame comprises a radio link protocol (RLP) frame. However, Semper discloses a

system, method, and apparatus for providing backward compatibility of radio link protocols in a wireless network, which further discloses a transport frame, comprises a radio link protocol (the system comprises a radio link protocol) (column 2, lines 10-15). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combined apparatus of Marino et al, Alden et al and Kluttz et al such as to use a radio link protocol. One would have been motivate to do so in order to reduce packets loss rate during transmission.

Conclusion

- 13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Yuen et al (US 6583825) Method and apparatus for transmitting and downloading setup information.
 - b. Wasilewski (US 5420866) Method for providing conditional access information to decoders in a packet based multiplexed communications system.
 - c. Cheng et al (US 6418130) Reuse of security associations for improving hand-over performance.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fatoumata Traore whose telephone number is (571) 270-1685. The examiner can normally be reached Monday through Thursday from 7:00 a.m. to 4:00 p.m. and every other Friday from 7:30 a.m. to 3:30 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nassar G. Moazzami, can be reached on (571) 272 4195. The fax phone number for Formal or Official faxes to Technology Center 2100 is (571) 273-8300. Draft or Informal faxes, which will not be entered in the application, may be submitted directly to the examiner at (571) 270-2685.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group Receptionist whose telephone number is (571) 272-2100.

14. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

FT Friday August 24, 2007 Nassar G. Moazzami Supervisory Patent Examiner

8/24/07